

Date: Tue, 15 Jun 93 09:48:59 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #729  
To: Info-Hams

Info-Hams Digest                      Tue, 15 Jun 93                      Volume 93 : Issue    729

Today's Topics:

7 weeks + 1 day for No-Code Tech License  
ADVICE NEEDED - for wanna be operator  
A little radio FUN!  
Bigger goes farther?  
BNC connectors  
BUYING COAX  
Digital microwave project  
E-SKIP on 6 METERS/VHF Contest  
Experience w MFJ Vertical?  
Field Day Power. (3 msgs)  
How do you view a .TAR file  
Need tubes for Nazi field radio  
New Radio Shack HT???  
North Cooks on 80???  
protection from lightning, help please!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 15 Jun 1993 13:56:55 GMT  
From: usc!howland.reston.ans.net!ux1.cso.uiuc.edu!moe.ksu.ksu.edu!crcnis1.unl.edu!  
rlosee@network.UCSD.EDU  
Subject: 7 weeks + 1 day for No-Code Tech License  
To: info-hams@ucsd.edu

Just another data point. Seems the FCC is a little better than I  
thought as I was told at least eight weeks. Took the test April 25th,

got the license June 14th. I'm now N0XLU.

--

\*-----\*

Robert D. Losee	BITNET: ucas402@unlvm
University of Nebraska	Internet: rlosee@unlinfo.unl.edu
Lincoln NE 68588-0496	Phone: (402) 472-7663

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Date: 15 Jun 93 16:48:20 GMT  
From: ogicse!uwm.edu!news.bbn.com!petra!popovich@network.UCSD.EDU  
Subject: ADVICE NEEDED - for wanna be operator  
To: info-hams@ucsd.edu

>: 3. Can you take the 13-wpm as a novice and have it hold until you take the  
>: general written.

>

>A CSCE (certificate for successful completion of exam) is given when you  
>pass tests but otherwise do not qualify for an upgrade. These are good  
>for one year.

This isn't terribly clear. A CSCE is also, of course, given when you pass tests and DO qualify for an upgrade. So you could take, for example Element 1B (the 13-wpm code test) and Element 2 (the Novice theory test), pass both, and be issued a CSCE for these elements and, eventually, a Novice class license. If you later (but within one year from the original test) passed Elements 3A and 3B (the Technician and General theory tests) and presented your CSCE for Elements 1B and 2, you would receive a CSCE for Elements 3A and 3B and the General class upgrade, and could operate using this authority (assuming that your Novice class license had in fact arrived). Eventually (how slow is the FCC lately, anyway?) you would receive a General class license. If you pass the 20-wpm code (Element 1C) on your Novice examination, you have a great incentive to bone up on your theory during the next year, all the way up to Extra. :-)

-Steve

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Date: 15 JUN 93 10:15:52  
From: pa.dec.com!oct17.dfe.dec.com!ryn.mro4.dec.com!cimfie.enet.dec.com!  
taber@decwrl.dec.com  
Subject: A little radio FUN!  
To: info-hams@ucsd.edu

In article <1vitjl\$99t@transfer.stratus.com>, fms@sw.stratus.com (Faith Senie) writes...

>I had an absolutely FUN day yesterday, and I thought I'd share it with y'all!

>

[great story about the best contest in the calendar hacked up...]

> They suggested I change phonetics, and I couldn't think of anything  
> else that started with T, so I asked everyone around me and got suggestions like  
> Turkey and Twit! :-) I admit I tried Turkey, but they heard it as Whiskey -- no  
> good!

I've found "Tennessee" to have a good hit rate in the contests, though  
"Tobacco" or "Tobasco" also seem to get the T across even if the words  
get confused for each other. In noisy conditions, three syllables seems  
the minimum.

Of course, with your call, "Just In Time" is a phrase most people are  
familiar with that could put the call across.

>>>==>PStJTT

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Date: 15 Jun 1993 11:35:52 GMT  
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!darwin.sura.net!  
news.larc.nasa.gov!arbd0.larc.nasa.gov!zawodny@network.UCSD.EDU  
Subject: Bigger goes farther?  
To: info-hams@ucsd.edu

In article <0Nw45B1w165w@opus-ovh.spk.wa.us> bmork@opus-ovh.spk.wa.us (Brian)  
writes:

> A lot of common knowledge indicates that longer wavelength radiation  
> goes farther.

>

> Well, what do you think?

>

> Brian Mork Internet bmork@opus-ovh.spk.wa.us

Well, I'll maintain that they both go the same distance in the same amount of  
time. All radiation will travel off at the proper speed of light (forever, if  
unabsorbed). If your now talking about point to point communications on a  
globe then HF wins it hands down over 23cm. No big mysteries here, maybe I  
missed the point of your post.

--

Joseph M. Zawodny (K04LW)  
Internet: zawodny@arbd0.larc.nasa.gov  
Packet: ko4lw@wb0tax.va.usa

NASA Langley Research Center  
MS-475, Hampton VA, 23681-0001



: HELPFUL.

: ----Steve ---- (N9LZY)  
: Electronic Data Systems  
: General Motors Corp.  
: Anderson, Ind.  
: Internet Address:: A15SEA%ANDV02@GMR.COM

Quite a bit of discussion has gone on about using 9913 for the rotor loop. The center conductor of 9913 is 9 AWG SOLID wire. Some say it works fine, others say it fails...myself I use RG-213. Would like to use RG-214, but too pricey. Loss wise there is not much difference between either hose, but RG-213 is more flexible. (Oops, I here the flame throwers warming up, I talking about loss below 30 mhz.)  
73, Jim, WA6SDM  
jholly@cup.hp.com

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Date: Tue, 15 Jun 1993 15:37:16 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
newsserver.jvnc.net!yale.edu!cs.yale.edu!ewing@network.UCSD.EDU  
Subject: Digital microwave project  
To: info-hams@ucsd.edu

Gary Coffman (gary@ke4zv.uucp) wrote:

: Practically speaking, the \*intent\* of the regulations is to protect  
: the public, using unsophisticated equipment, from being exposed to  
: indecent materials, and to restrict broadcast type services. So a  
: compressed data stream is just a data transmission that's unlikely  
: to be hassled.

A well-compressed data stream is indistinguishable from an encrypted message. And, with the the "right" key, you can pull any plaintext out of a random data sequence. I.e., the same string can be decoded as your typical no-content QSO, hard-core porno pix, or your favorite heavy metal band. It is a standard crypto technique to disguise "bad" info as harmless text.

So what's the poor FCC to do? Write the "compress" or "zip" spec into Part 97? If the real intent is to protect innocent ears, I think any common data compression is OK; if it's to prevent secret communications, then allow only plaintext. But even plaintext is suspicious. I think we have to outlaw ham radio... :-)

--

Martin Ewing AA6E                   ewing-martin@yale.edu (ewing@yalevm.bitnet)  
Yale University Science & Engineering Computing Facility 203-432-4243

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Date: Tue, 15 Jun 1993 12:27:45 GMT  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sol.ctr.columbia.edu!  
NewsWatcher!user@network.UCSD.EDU  
Subject: E-SKIP on 6 METERS/VHF Contest  
To: info-hams@ucsd.edu

This will be short as I don't have all data in front of me.  
Sat was 6 meter E-Skip to C02; HH2;9Y4;VP2;C6; and W6 & W7 West coast  
double hop. This is a USA Mid Atlantic Report (W3 land).This was all June  
12th AM period.  
On June 10th or June 13 th GMT there was alot of Double E to Europe  
reported. The upper East Coast had a field day into Europe and even reports  
of Russia. When I get all data in will try to attach or new article. Stiil  
sick today, only in for abt 1 HR. Dick

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Date: 14 Jun 93 23:30:06 PDT  
From: csus.edu!nic.csu.net!computer\_ctr.sonoma.edu!vannuysd@decwrl.dec.com  
Subject: Experience w MFJ Vertical?  
To: info-hams@ucsd.edu

The MFJ catalog lists a halfwave vertical for \$169 that sounds too good  
to be true... coverage of 40, 20, 15, 10, 6, and 2 meters, without  
radials. Does anybody out there have any actual experience with this  
thing? I'd really be interested to hear what your experience has been.

Please send e-mail.

David Van Nuys KD6WKT/AE

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Date: 15 Jun 1993 11:43:56 GMT  
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!darwin.sura.net!  
news.larc.nasa.gov!arbd0.larc.nasa.gov!zawodny@network.UCSD.EDU  
Subject: Field Day Power.  
To: info-hams@ucsd.edu

In article <cg7ALfu00YVX03gXYW@andrew.cmu.edu> Bruce Taylor <blt+@CMU.EDU> writes:  
>(Stuff tossed)  
> While I'd appreciate a "theatrical" fully silenced diesel 50kW  
>generator, I'll take the Honda unit any time.  
>  
> - Bruce Taylor (blt+@cmu.edu)  
> wb3aya

All this talk of huge 10, 20, even 50kw generators -- all to run half a dozen radio stations is absurd. Look at the power requirements, efficiencies, and duty cycles of the equipment you'll be running field day. Don't forget to toss in a fan and a light for each station and a coffee pot. You'll soon see that even the 4 kw generator that we use for field day is over kill IF you have the ability to average out the peak loads (read that as "have batteries as primary power/current source").

--

Joseph M. Zawodny (K04LW)  
Internet: [zawodny@arbd0.larc.nasa.gov](mailto:zawodny@arbd0.larc.nasa.gov)  
Packet: [ko4lw@wb0tax.va.usa](mailto:ko4lw@wb0tax.va.usa)

NASA Langley Research Center  
MS-475, Hampton VA, 23681-0001

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Date: Tue, 15 Jun 1993 10:44:28 -0400  
From: [pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!darwin.sura.net!europa.eng.gtefsd.com!fs7.ece.cmu.edu!news.sei.cmu.edu!bb3.andrew.cmu.edu!andrew.cmu.edu!bt01+@network.UCSD](mailto:pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!darwin.sura.net!europa.eng.gtefsd.com!fs7.ece.cmu.edu!news.sei.cmu.edu!bb3.andrew.cmu.edu!andrew.cmu.edu!bt01+@network.UCSD)  
Subject: Field Day Power.  
To: [info-hams@ucsd.edu](mailto:info-hams@ucsd.edu)

In article <[1vkclsINN4o4@rave.larc.nasa.gov](mailto:1vkclsINN4o4@rave.larc.nasa.gov)> Dr. Joseph M Zawodny  
<[zawodny@arbd0.larc.nasa.gov](mailto:zawodny@arbd0.larc.nasa.gov)> writes:

> [...]  
>All this talk of huge 10, 20, even 50kw generators -- all to run half  
>a dozen radio stations is absurd. [...]

I think that some folks have missed the point of Field Day -- to come up with the most outrageous collection of power consuming devices possible!

Really, if you're using a fire tower, why not decorate it with a couple of strings of construction lights, tastefully wound around the exterior? :-) :-) :-)

In all seriousness, there are many styles of Field Day operation. I happen to love the support aspects -- figuring out places to mount antennas, running the generators, cooking, more generators, climbing towers/trees, more generators...

You're welcome to run a thermocouple powered QRP rig from the difference between a hot spring and a block of ice -- but I'm going to go for the "Grand Excess".

Hope to hear you on the air, whichever way you go!

- Bruce Taylor (blt+@cmu.edu)  
wb3aya

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Date: Tue, 15 Jun 1993 16:36:35 GMT  
From: pravda.sdsc.edu!news.cerf.net!usc!news.bbn.com!petra!  
popovich@network.UCSD.EDU  
Subject: Field Day Power.  
To: info-hams@ucsd.edu

>All this talk of huge 10, 20, even 50kw generators -- all to run half a dozen  
>radio stations is absurd. Look at the power requirements, efficiencys, and  
>duty cycles of the equipment you'll be running field day. Don't forget to toss  
>in a fan and a light for each station and a coffee pot. You'll soon see that  
>even the 4 kw generator that we use for field day is over kill IF you have the  
>ability to average out the peak loads (read that as "have batteries as primary  
>power/current source").

What's the problem? As long as the club can support the large  
generator, why not have the largest one practical? It has more  
reserve for unexpected loads, particularly if you're keeping it around  
for REAL emergencies, as opposed to just renting it for Field Day.  
Besides, there are some serious Field Day stations around who might  
run something like 10 stations at 1.5KW each, and you're telling THEM  
that they don't need that much power? If your club is running Field  
Day on a shoestring, sure, then by all means budget your power as  
parsimoniously as you can, but don't expect EVERYONE to do the same.

-Steve

-----  
Date: 15 Jun 93 12:59:07 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: How do you view a .TAR file  
To: info-hams@ucsd.edu

A few weeks ago I downloaded CHURCVR.TAR. This is a schematics for  
a receiver to copy CHU time signals. My problem is how do I  
view the file on a DOS system??

73 -- marty -- nr3z                    skitch@nadc.navy.mil

-----  
Date: 15 Jun 93 11:40:13 GMT  
From: gatech!news.ans.net!newsgate.watson.ibm.com!yktnews.watson.ibm.com!



news@RUTGERS.EDU  
Subject: Need tubes for Nazi field radio  
To: info-hams@ucsd.edu

Its been suggested that I consult the vast wisdom of this group in search of some information. I recently acquired a WWII Nazi field radio which is in excellent condition, however; it lacks tubes.

Fortunately, the inside of the radio contains a schematic (in German, of course) for the unit. The schematic indicates what I believe is the type and/or part number for each of the five tubes. Here they are:

- DCH11
- DF11
- DAF11
- DL11
- UY11

On another newsgroup I was informed that these were 1.2V filament tubes and that they might not be too easy to come by. Can anybody share some additional light? Gee...I wish there was a rec.radio.antique!

--  
Regards,  
Ryan Rogers

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*****
*                                     *
* NewsReader/2 Development          * NR/2: 'cause reading Internet
* Multimedia Network Technology    *      news is more fun than
* IBM T.J. Watson Research Center *      playing Mahjong.
*                                     *
*****
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Disclaimer: My opinions are mine, and not necessarily IBM's.

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Date: Tue, 15 Jun 1993 13:43:26 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!gatech!kd4nc!  
ke4zv!gary@network.UCSD.EDU  
Subject: New Radio Shack HT???  
To: info-hams@ucsd.edu

In article <1787700039@trsvax> rpo@trsvax.tandy.com writes:

>  
>The new Radio Shack 440 MHz scanner is now available at some  
                  ^^^^^^ ?????

I thought it was a real radio.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

-----  
Date: 15 Jun 1993 15:49:01 GMT  
From: overload.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!  
cs.utexas.edu!swrinde!sdd.hp.com!saimiri.prima.te.wisc.edu!usenet.coe.montana.edu!  
netnews.nwnet.net!news.@dog.ee.lbl.gov  
Subject: North Cooks on 80???  
To: info-hams@ucsd.edu

This morning ZK1AJJ/ZK1 on North Cook was coming thru to the West Coast on  
40 CW loud and clear (1420 UTC). Has anyone heard him on 80 meters? If so,  
what time has he been operating?

THanks for any help.  
Steve/AA7FL  
milewski@oregon.uoregon.edu

-----  
Date: 10 Jun 93 09:03:47 GMT  
From: news.cerf.net!usc!howland.reston.ans.net!gatech!enterpoop.mit.edu!  
eru.mt.luth.se!lunic!sunic!mcsun!sun4nl!rulway.LeidenUniv.nl!  
news.wi.leidenuniv.nl!stpc152.wi.leidenuniv.@pravda.sdsc.edu  
Subject: protection from lightning, help please!  
To: info-hams@ucsd.edu

Hello, I don't know if this is the appropriate newsgroup for asking this,  
but I need some help...

I have to install a large antenna on my roof but I'm scared it will be hit  
by lightning. Now there's a dilemma:

- 1) I could ground the antenna, this gives protection against lightning, but  
alas it also keeps me from receiving any wanted signals.
- 2) I could forget about grounding, this gives excellent receiving properties  
but then I'll won't get any sleep during a thunderstorm.

So, what should I do? Is there a way out of this dilemma?

Please respond via e-mail as I can't read this group too often.

Thanks in advance.

Eric

---

paauw@stpc.wi.leidenuniv.nl

-----  
Date: Tue, 15 Jun 1993 14:10:03 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!gatech!kd4nc!  
ke4zv!gary@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <930613.142008.5Z6.rusnews.w165w@garlic.sbs.com>,  
<1993Jun14.144241.17691@ke4zv.uucp>, <C8nAqG.4px@athena.cs.uga.edu>  
Reply-To : gary@ke4zv.UUCP (Gary Coffman)  
Subject : Re: Digital microwave project

In article <C8nAqG.4px@athena.cs.uga.edu> mcovingt@aisun3.ai.uga.edu (Michael Covington) writes:

>In article <1993Jun14.144241.17691@ke4zv.uucp> gary@ke4zv.UUCP (Gary Coffman) writes:

>>In article <930613.142008.5Z6.rusnews.w165w@garlic.sbs.com> system@garlic.sbs.com (Tony Pelliccio) writes:

>

>>>Now I know that profane/obscene material isn't permitted but all the  
>>>stuff is sent compressed and unreadable unless you're running uucico  
>>>etc. What is the legality of this? I mean, music can be transmitted, as  
>>>digital (midi files, etc) so what would the issue be with passing  
>>>alt.sex.stories in coded format? Just out of sheer curiosity of course.

>>

>>Strictly speaking, all such transmissions are prohibited, even the  
>>midi sequences. The rules don't specify the format, only the content.  
>>Practically speaking, the \*intent\* of the regulations is to protect  
>>the public, using unsophisticated equipment, from being exposed to  
>>indecent materials, and to restrict broadcast type services. So a  
>>compressed data stream is just a data transmission that's unlikely  
>>to be hassled.

>

>Actually, the FCC's intentions are clear, and are not quite what you  
>said. Transmission of descriptions of music is OK so long as the music  
>cannot be directly demodulated as such with ordinary radio equipment  
>-- that is, you can transmit all the MIDI sequences you want, but don't

>transmit music as audio on FM, AM, or SSB.

And exactly *\*where\** in the rules does it say that? Part 97.113(d) flatly prohibits the transmission of music. It does not specify a modulation encoding. This part deals strictly with content, and not the method used to convey that content. In practice, the intent of the regulation is to stop amateurs from competing with broadcast stations, though that's also covered in the prohibition on one way transmissions, but the wording of the regulation applies to the content, no matter what modulation encoding is used. In fact the prohibition is in the same sentence with the prohibition on obscene, indecent, or profane words, language, or meaning. And it also shares the sentence with the prohibition on using codes and ciphers to obscure meaning. None of these specify particular modulation encodings. To one with the proper receiving equipment, midi sequences are transmission of music just as much as an alt.sex.picture transmission is a sending of indecent material for someone with the proper viewing equipment.

Now as I stated above, I don't think you would be hassled about this unless someone filed a complaint. The FCC doesn't make a practice of trying to decipher the content of every digital transmission it monitors. One binary transmission pretty much looks like any other on the spectrum analyser.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 15 Jun 93 06:29:45 GMT

From: munnari.oz.au!metro!mippet.ci.com.au!eram!dave@uunet.uu.net

To: info-hams@ucsd.edu

References <1993Jun09.193854.14470@microsoft.com>, <4061@eram.esi.COM.AU>, <C8H6pr.J7n@ucdavis.edu>e

Subject : Re: ham radios in movies

In article <C8H6pr.J7n@ucdavis.edu>,

ez006683@othello.ucdavis.edu (Daniel D. Todd) writes:

| : I've used radios (2m and 70cm) deep down in caves, with little problem.  
| Did anyone hear you while you were using your HT dep in the cave? :-)

Yep - the station on the surface. I am not kidding. This is something  
I need to explore further, obviously.

--

Dave Horsfall (VK2KFU)	VK2KFU @ VK2RWI.NSW.AUS.OC	PGP 2.2
dave@esi.COM.AU	...munhari!esi.COM.AU!dave	available

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End of Info-Hams Digest V93 #729

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